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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,837	07/12/2005	Uno Henningsson	P16589	6125
27045	7590	10/16/2007		
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024			EXAMINER BOES, TERENCE	
			ART UNIT 3682	PAPER NUMBER
			MAIL DATE 10/16/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/541,837	Applicant(s) HENNINGSSON ET AL.	
	Examiner Terence Boes	Art Unit 3682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08/02/2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9, 11, 13-21 and 23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11, 13-21 and 23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 2-9 and 14-21 are objected to because of the following informalities: The term "whereby" is grammatically awkward. The examiner suggests --wherein--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. Claims 1-9, 11, 13-21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morales US 4,954,032 in view of Henningsson et al. US 6,670,869.

Morales discloses:

- a cavity (cavity is shown at 12 in figure 5) for insertion of a threaded axle (9) along which the screw arrangement is movably arranged,
- a first resilient part (25) to eliminate an axial allowance
- a second resilient part (upper instance of 21) to eliminate a radial allowance,
- whereby the screw arrangement consists of a first part (3) and a second part (2) that are connectable to each other.
- whereby the first part can be inserted into the second part (see figures 4 and 5).
- whereby the first resilient part comprises a separate spring (25 is a spring).

- whereby the first resilient part comprises an integrated part of the first part of the screw arrangement (3 and 25 are integrated in that they function together, see figures 4 and 5).
- whereby the second resilient part comprises at least one resilient tongue (21 is a resilient tongue) that is arranged in parallel to the screw arrangement axis for insertion into corresponding grooves (upper instance of 28) of the second part of the screw arrangement.
- whereby an end of the resilient tongue is equipped with a bulge (upper instance of 22) to secure a firm connection of the first and second part of the screw arrangement.
- whereby the first screw arrangement part comprises one or more convex protrusions (lower instance of 22) and the second screw part comprises corresponding grooves (28) for insertion of the first part of the screw arrangement into the second part of the screw arrangement.
- the screw arrangement comprising a threaded means for fastening of a tuner object (8 is capable of fastening a tuner object).

Morales does not disclose stationary semi-spheres.

Henningsson et al. teach stationary semi-spheres (28) for the purpose of eliminating a radial tolerance (C8/L60-65).

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the teachings of Morales and provide semi-spheres, as taught by Henningsson et al., for the purpose of eliminating a radial tolerance.

Morales in view of Henningsson et al. disclose the claimed invention except for six semi-spheres following one turn of a threaded axle. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide 6 semi-spheres following one turn of a threaded axle, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

Regarding claims 13-21 and 23

- a cavity (cavity is shown at 12 in figure 5) for insertion of a threaded axle (9) along which the screw arrangement is movably arranged
- a first resilient part (25) to eliminate an axial allowance
- a second resilient part (upper instance of 21) to eliminate a radial allowance,
- whereby the screw arrangement consists of a first part (3) and a second part (2) that are connectable to each other.

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- whereby the first part can be inserted into the second part (see figures 4 and 5).
- whereby the first resilient part comprises a separate spring (25 is a spring).
- whereby the first resilient part comprises an integrated part of the first part of the screw arrangement (3 and 25 are integrated in that they function together, see figures 4 and 5).
- whereby the second resilient part comprises at least one resilient tongue (21 is a resilient tongue) that is arranged in parallel to the screw arrangement axis for insertion into corresponding grooves (upper instance of 28) of the second part of the screw arrangement.
- whereby an end of the resilient tongue is equipped with a bulge (upper instance of 22) to secure a firm connection of the first and second part of the screw arrangement.
- whereby the first screw arrangement part comprises one or more convex protrusions (lower instance of 22) and the second screw part comprises corresponding grooves (28) for insertion of the first part of the screw arrangement into the second part of the screw arrangement.
- the screw arrangement comprising a threaded means for fastening of a tuner object (8 is capable of fastening a tuner object).

Morales does not disclose stationary semi-spheres.

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Morales in view of Henningsson et al. disclose the claimed invention except for six semi-spheres following one turn of a threaded axle. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide 6 semi-spheres following one turn of a threaded axle, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

Response to Arguments

Applicant's arguments with respect to claims 1-9, 11, 13-21 and 23 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terence Boes whose telephone number is (571) 272-4898. The examiner can normally be reached on Monday - Friday 9:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TB

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10/5/07


RICHARD RIDLEY
SUPERVISORY PATENT EXAMINER